Intro to Logic
Predicate Logic - Practice Translations

(Include the predicate “Px = x is a person” as necessary.)

1) Neither Rachmaninoff nor Chopin was a violinist. (Vx, r, c)
2) Some cats are orange. (Cx, Ox)
3) All cats are mammals. (Cx, Mx)
4) Not all Star Trek fans are geeks. (Sx, Gx)
5) Cats and dogs are vertebrates. (Cx, Dx, Vx)
6) No aliens live on Mars. (Ax, Mx)
7) Only omniscient beings can predict the weather. (Ox, Bx, Wx)
8) If all the bridges in San Francisco are suspension bridges, then the Golden Gate Bridge is a suspension bridge. (Bx, Sx, Ux, g)
9) If San Francisco is in California, then the Transamerica Pyramid is in California. (Cx, s, t)
10) Brenda loves Dylan. (Lxy, b, d)
11) No one loves Andrea. (Lxy, a)
12) No one dislikes everyone. (Dxy)
13) If somebody shot J.R. Ewing, then Kristin did. (Sxy, j, k)
14) Nobody loathes himself. (Lxy)
15) Everybody cares for somebody. (Cxy)
16) Some cats love everyone who pets them. (Cx, Lxy, Pxy)
17) If there are dogs, then all dogs go to heaven. (Dx, Hx)
18) Some students who study logic can complete any proof in the book. (Sx, Lx, Cxy, Px, Bx)
19) Every teacher will educate a brilliant student. (Tx, Exy, Bx, Sx)
20) If there are any hopes or dreams, then they will be fulfilled. (Hx, Dx, Fx)
21) Hulk Hogan is Terry Bollea. (h, b)
21) Socrates is neither Plato nor Aristotle. (s, p, a)
22) The only philosopher who fell into a well was Thales. (Px, Wx, t)
23) No Vulcans except Mr. Spock were in Starfleet. (Vx, Sx, s)
24) The only viable Republican candidates are Fred Thompson and Rudy Guiliani. (Vx, Rx, t, g)
25) UC Santa Cruz is the most liberal university in California. (Lxy, Ux, Cx, s)
26) Mt. Lyle is the tallest peak in Yosemite. (Txy, Px, Yx, l)
27) All dogs except Fido go to heaven. (Dx, Hx, f)
28) All railroads except Burlington Northern Santa Fe have attractive color schemes. (Rx, Ax, b)
29) There is at most one moon orbiting Earth. (Mx, Oxy, e)
30) There are at most two issues at hand. (Ix, Hx)
31) There is at least one fact that is true. (Fx, Tx)
32) There are at least two planets beyond Pluto. (Px, Bxy, p)
33) There are at least three philosophers who disagree. (Px, Dx)
34) There is exactly one Santa Claus. (Sx)
35) There are exactly two great books in the library. (Gx, Bx, Lx)
36) The person who composed “Fur Elise” was Beethoven. (Px, Cxy, f, b)
37) The queen of England is not Victoria. (Qxy, e, v)
38) There are exactly three Musketeers.
39) The person who is governor of California starred in “The Terminator”. (Px, Gxy, Sxy, c, t)
40) All rich people except Donald Trump have good hairdos. (Rx, Px, Hx, d)